General papers

J.P. Mortola and C. Lanthier

Y. Niizuma and O. Yamamura

C.M. Luquet

J. Halperin, G. Genovese, M. Tresguerres and

G.R. Ultsch, E.L. Brainerd and D.C. Jackson



CONTENTS OF VOLUME 139

Vol. 139A, No. 1

C.A. Radford, I.D. Marsden and W. Davison Temporal variation in the specific dynamic action of juvenile New Zealand rock lobsters, Jasus edwardsii D.-Y. Yang, C.-J. Chang, H.-C. Peh and M.-T. Chen 11 Anti-peroxidation effects of vitamin E on low density lipoprotein and milk fat globule membrane of lactating goats: in vivo versus metal ion challenge in vitro R. Dópido, C. Rodríguez, T. Gómez, N.G. Acosta 21 Isolation and characterization of enterocytes along the intestinal tract and M. Díaz of the gilthead seabream (Sparus aurata L.) M.L. Wright and N.K. Bruni 33 Influence of the photocycle and thermocycle on rhythms of plasma thyroxine and plasma and ocular melatonin in late metamorphic stages of the bullfrog tadpole, Rana catesbeiana J.M. Sánchez-Guzmán, A. Villegas, C. Corbacho, Response of the haematocrit to body condition changes in Northern R. Morán, A. Marzal and R. Real Bald Ibis Geronticus eremita R. Jucá-Chagas 49 Air breathing of the neotropical fishes Lepidosiren paradoxa, Hoplerythrinus unitaeniatus and Hoplosternum littorale during aquatic hypoxia R.W. Krohmer, D. Martinez and R.T. Mason Development of the renal sexual segment in immature snakes: 55 effect of sex steroid hormones 65 A.A. Prem Anand and K. Sripathi Digestion of cellulose and xylan by symbiotic bacteria in the intestine of the Indian flying fox (Pteropus giganteus) D.L. Goldstein and S. Newland 71 Water balance and kidney function in the least shrew (Cryptotis parva) B.W. Patullo and D.L. Macmillan 77 The relationship between body size and the field potentials generated by swimming crayfish

Lung collapse among aquatic reptiles and amphibians during long-term diving

Japanese sand lance (Ammodytes personatus)

Scaling the amplitudes of the circadian pattern of resting oxygen

Assimilation efficiency of Rhinoceros Auklet (Cerorhinca mono-cerata) chicks fed Japanese anchovy (Engraulis japonicus) and

consumption, body temperature and heart rate in mammals

Modulation of ion uptake across posterior gills of the crab Chasmagnathus granulatus by dopamine and cAMP

M. Fujita

117 Kinematic parameters of the walking of herons, ground-feeders,

83

97

103

I Instructions to Authors

and waterfowl

Vol. 139A, No. 2

General papers

- Developmental stage-specific expression and tissue distribution of M. Watanabe, T. Nakano, B. Shiotani, 125 pierisin-1, a guanine-specific ADP-ribosylating toxin, in Pieris Y. Matsushima-Hibiya, M. Kiuchi, F. Yukuhiro, T. Kanazawa, K. Koyama, T. Sugimura and rapae K. Wakabayashi Dietary calcium deficiency increases Ca2+ uptake and Ca2+ extrusion 133 V.A. Centeno, G.E. Díaz de Barboza, A.M. Marchionatti, A.E. Alisio, M.E. Dallorso, mechanisms in chick enterocytes R. Nasif and N.G. Tolosa de Talamoni Effects of antisecretory factor-derived peptides on contractions in 143 A.P. Harrison, E.M. Bartels, K.H. Erlwanger, V.S. Elbrønd, E. Skadhauge and M.A. Unmack guinea pig colon 149 Novelty stress and reproductive state alters responsiveness to sensory M.-P. Pagé and R.L. Cooper stimuli and 5-HT neuromodulation in crayfish J.H. Roe, W.A. Hopkins, J.W. Snodgrass and 159 The influence of circadian rhythms on pre- and post-prandial metabolism in the snake Lamprophis fuliginosus J.D. Congdon S.M. Almeida-Santos, I.L. Laporta-Ferreira, 169 Sperm storage in males of the snake Crotalus durissus terrificus M.M. Antoniazzi and C. Jared (Crotalinae: Viperidae) in southeastern Brazil A. Kaldis, B.G. Atkinson and J.J. Heikkila 175 Molecular chaperone function of the Rana catesbeiana small heat shock protein, hsp30 P. Nieminen, T. Pyykönen, J. Asikainen, 183 Effects of fasting and exogenous melatonin on annual rhythms in the J. Mononen and A.-M. Mustonen blue fox (Alopex lagopus) Effect of dietary vitamin E level on growth, tissue lipid peroxidation, C.-H. Huang, D.A. Higgs, S.K. Balfry and 199 R.H. Devlin and erythrocyte fragility of transgenic coho salmon, Oncorhynchus kisutch A. Ansart and P. Vernon 205 Cold hardiness abilities vary with the size of the land snail Cornu aspersum Evidence for placental transfer of lipids during gestation in the B.K. Speake, J.F. Herbert and M.B. Thompson 213 viviparous lizard, Pseudemoia entrecasteauxii D.C. Jackson, E.M. Rauer, R.A. Feldman and 221 Avenues of extrapulmonary oxygen uptake in western painted turtles S.A. Reese (Chrysemys picta belli) at 10 °C T.M. Mäkinen, T. Pääkkönen, L.A. Palinkas, 229 Seasonal changes in thermal responses of urban residents to cold H. Rintamäki, J. Leppäluoto and J. Hassi exposure I.G.A. Kiris, O.T. Eroldoğan, M. Kır and 239 Influence of neuropeptide Y (NPY) on food intake and growth of M. Kumlu penaeid shrimps Marsupenaeus japonicus and Penaeus semisulcatus (Decapoda: Penaeidae) Conditioning reduces metabolic rate and time to steady-state in the K.M. Hare, S. Pledger, M.B. Thompson, 245 J.H. Miller, and C.H. Daugherty lizard Naultinus manukanus (Reptilia: Gekkonidae) J.E. Cowling, J.M. Weeks, J.I. Spicer 251 Physiological tolerances of the euterrestrial amphipod Arcitalitrus and K.J. Gaston dorrieni (Hunt) as a key to its geographical distribution? A test using mesocosms
 - I Instructions to Authors

Vol. 139A, No. 3

	Vol. 13	39A, No. 3
Reviews		
R.K. Buddington and Å. Krogdahl	261	Hormonal regulation of the fish gastrointestinal tract
S. Dridi, O. Onagbesan, Q. Swennen, J. Buyse, E. Decuypere and M. Taouis	273	Gene expression, tissue distribution and potential physiological role of uncoupling protein in avian species
General papers		
R. Birkedal and H. Gesser	285	Effects of hibernation on mitochondrial regulation and metabolic capacities in myocardium of painted turtle (Chrysemys picta)
N. Bennegadi-Laurent, T. Gidenne and D. Licois	293	Nutritional and sanitary statuses alter postweaning development of caecal microbial activity in the rabbit
J. Tomás, A.J. Geffen, I.S. Allen and J. Berges	301	Analysis of the soluble matrix of vaterite otoliths of juvenile herring (Clupea harengus): do crystalline otoliths have less protein?
D.J. Marshall, R. Peter and S.L. Chown	309	Regulated bradycardia in the pulmonate limpet <i>Siphonaria</i> (Gastropoda: Mollusca) during pollutant exposure: implication for biomarker studies
B.C. Peterson, G.C. Waldbieser and L. Bilodeau	317	IGF-I and IGF-II mRNA expression in slow and fast growing families of USDA103 channel catfish (<i>Ictalurus punctatus</i>)
A.K. Green, S.L. Haley, M.D. Dearing, D.M. Barnes and W.H. Karasov	325	Intestinal capacity of P-glycoprotein is higher in the juniper specialist, Neotoma stephensi, than the sympatric generalist, Neotoma albigula
J.R. Stewart, T.W. Ecay and D.G. Blackburn	335	Sources and timing of calcium mobilization during embryonic development of the corn snake, <i>Pantherophis guttatus</i>
P. Badino, R. Odore, M.C. Osella, L. Bergamasco, P. Francone, C. Girardi and G. Re	343	Modifications of serotonergic and adrenergic receptor concentrations in the brain of aggressive Canis familiaris
M.A. Gutowska, J.C. Drazen and B.H. Robison	351	Digestive chitinolytic activity in marine fishes of Monterey Bay, California
S.J. Fu and X.J. Xie	359	Nutritional homeostasis in carnivorous southern catfish (Silurus meridionalis): is there a mechanism for increased energy expenditure during carbohydrate overfeeding?
E. Sokołowska, H. Kalamarz and E. Kulczykowska	365	Seasonal changes in brain melatonin concentration in the three-spined stickleback (Gasterosteus aculeatus): towards an endocrine calendar
W.J. Mautz and M.R. Dohm	371	Respiratory and behavioral effects of ozone on a lizard and a frog
M. Jefimow, M. Wojciechowski and E. Tęgowska	379	Seasonal changes in the thermoregulation of laboratory golden hamsters during acclimation to seminatural outdoor conditions
G.R. Wilson, S.J. Cooper and J.A. Gessaman	389	The effects of temperature and artificial rain on the metabolism of American kestrels (Falco sparverius)
A. Mata and C. Bosque	395	Sugar preferences, absorption efficiency and water influx in a Neotropical nectarivorous passerine, the Bananaquit (Coereba flaveola)

I Instructions to Authors

Vol. 139A, No. 4

	voi. 1.	59A, NO. 4
General papers		
G. Ruiz, M. Rosenmann and A. Cortes	405	Thermal acclimation and seasonal variations of erythrocyte size in the Andean mouse <i>Phyllotis xanthopygus rupestris</i>
E. Ophir, Y. Arieli and J. Marder	411	The effect of α_2 -adrenergic receptors on cutaneous water evaporation in the rock pigeon (<i>Columba livia</i>)
A.H.K. Osman, S. Yuge, S. Hyodo, S. Sato, S. Maeda, H. Marie, T. Caceci, N. Birukawa, A. Urano, K. Naruse, M. Naruse and Y. Takei	417	Molecular identification and immunohistochemical localization of atrial natriuretic peptide in the heart of the dromedary camel (Camelus dromedarius)
P.F. Oliveira, I.A. Lopes, C. Barrias and A.M. Rebelo da Costa	425	H ⁺ -ATPase of crude homogenate of the outer mantle epithelium of Anodonta cygnea
K.B. Davis	433	Temperature affects physiological stress responses to acute confinement in sunshine bass (Morone chrysops × Morone saxatilis)
P. Ntshotsho, R.J. van Aarde, S.W. Nicolson and T.P. Jackson	441	Renal physiology of two southern African <i>Mastomys</i> species (Rodentia: Muridae): a salt-loading experiment to assess concentrating ability
M. Clauss, A. Schwarm, S. Ortmann, D. Alber, E.J. Flach, R. Kühne, J. Hummel, W.J. Streich and H. Hofer	449	Intake, ingesta retention, particle size distribution and digestibility in the hippopotamidae
R.P. Guedes, M.I. Marchi, M. Achaval and W.A. Partata	461	Complete sciatic nerve transection induces increase of neuropeptide Y-like immunoreactivity in primary sensory neurons and spinal cord of frogs
S.k.M. Rahman and T. Uehara	469	Interspecific and intraspecific variations in sibling species of sea urchin <i>Echinometra</i>
R.D. Oliveira, J.M. Lopes, J.R. Sanches, A.L. Kalinin, M.L. Glass and F.T. Rantin	479	Cardiorespiratory responses of the facultative air-breathing fish jeju, Hoplerythrinus unitaeniatus (Teleostei, Erythrinidae), exposed to graded ambient hypoxia
I.Y. Mahmoud, J.R. Paulson, M. Dudley, J.S. Patzlaff and A.Y.A. Al-Kindi	487	Secretory proteins in the reproductive tract of the snapping turtle, Chelhydra serpentina
A.J. Tierney, M.A. Greenlaw, K. Dams-O'Connor, S.D. Aig and A.M. Perna	495	Behavioral effects of serotonin and serotonin agonists in two crayfish species, <i>Procambarus clarkii</i> and <i>Orconectes rusticus</i>
J.C. del Valle, A.A.López Mañanes and C. Busch	503	Phenotypic flexibility of digestive morphology and physiology of the South American omnivorous rodent <i>Akodon azarae</i> (Rodentia: Sigmodontinae)
J. Juśkiewicz and Z. Zduńczyk	513	Effects of cellulose, carboxymethylcellulose and inulin fed to rats as single supplements or in combinations on their caecal parameters
M. Xie, C. Zhang, W. Zeng and Y. Mi	521	Effects of follicle-stimulating hormone and 17β -estradiol on proliferation of chicken embryonic ovarian germ cells in culture
M. Caprioli, A. Krabbe Katholm, G. Melone, H. Ramløv, C. Ricci and N. Santo	527	Trehalose in desiccated rotifers: a comparison between a bdelloid and a monogonont species

S.M. Rankin, M.A. Innocenti, C.A. Eicher and D. Furst

533 The effect of ventral nerve cord severance and male castration on female mating behavior, clutch size, and maternal care in the ring-legged earwig

I Contents of Volume

VII Subject Index

XI Author Index

XIII Instructions to Authors

